

ABSTRACT OF THE DISCLOSURE

A system specification in a state transition table form is formed by a set of pieces of state transition unit information each including a current state, event, next state, and information associated with execution control. The information associated with execution control includes a program to be executed/controlled in association with the state transition and execution control contents (start, interrupt end, interrupt pause, end, resume). An execution control table conversion section creates a system specification in an execution control table form on the basis of this state transition table. The execution control table includes a set of pieces of program state transition unit information each including a transition, current execution processing content, its end type, next program, and its start type. A system implementation conversion section creates a system specification described in a system description language and having an executable form on the basis of the execution control table.

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